

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Wayne Smith, et al.	)	Confirmation No.: 3517
	)	
Serial No.: 10/006,605	)	Examiner: Nguyen,
	)	Merilyn P.
Filed on: December 5, 2001	)	Group Art Unit No.: 2161

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 together with copies of the documents cited on that form, if needed. It is respectfully requested that the cited documents be considered and that the enclosed Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

- X   37 C.F.R. §1.97(b).
- 37 C.F.R. §1.97(c). If so, then this Information Disclosure Statement includes one of the following:
- A statement pursuant to 37 C.F.R. §1.97(e)

       1.97(e)(1) The undersigned hereby states that each item of information contained in this information disclosure statement was first

cited in communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

\_\_\_\_\_ 1.97(e)(2) The undersigned hereby states that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement.

\_\_\_\_\_ A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).

\_\_\_\_\_ 37 C.F.R. §1.97(d). If so, then this Information Disclosure Statement includes the following:

\_\_\_\_\_ A statement pursuant to 37 C.F.R. §1.97(e)

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\_\_\_\_\_ 1.97(e)(2) The undersigned hereby states that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement.

AND

\_\_\_\_\_ A check for \$180.00 for the fee under 37 C.F.R. §1.17(i) for submission of the Information Disclosure Statement.

\_\_\_\_\_ 37 C.F.R. §1.97(i). Wherein applicants are submitting references before the grant of a patent to be placed in the file but not considered by the Patent office.

(1) Accordingly, copies of the references as listed on the attached Form PTO 1449 are submitted herewith for placement in the file. No certification or fees are deemed necessary.

Throughout the pendency of this application, please charge any additional fees, including any required extension of time fees, and credit all overpayments to deposit account 50-1302.

Respectfully submitted,

HICKMAN PALERMO TRUONG & BECKER LLP

Dated: April 6, 2005



Marcel K. Bingham  
Reg. No. 42,327

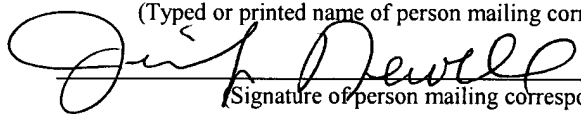
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Jennifer Newell

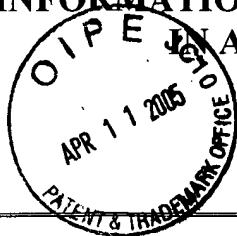
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(Signature of person mailing correspondence)

# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(PTO-1449)



ATTY. DOCKET NO.  
50277-1755

SERIAL NO.  
10/006,605

APPLICANT:  
Wayne Smith et al.

FILING DATE:  
December 5, 2001

GROUP:  
2161

## U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
		5,261,098		Katin et al.	11-09-1993	(text provided on CD-ROM)
		5,276,870		Shan et al.	01-04-1994	(text provided on CD-ROM)
		5,404,506		Fujisawa et al.	04-04-1995	(text provided on CD-ROM)
		5,418,946		Mori	05-23-1995	(text provided on CD-ROM)
		5,444,842		Bentson et al.	08-22-1995	(text provided on CD-ROM)
		5,548,755		Leung et al.	08-20-1996	(text provided on CD-ROM)
		5,551,027		Choy et al.	08-27-1996	(text provided on CD-ROM)
		5,560,005		Hoover et al.	09-24-1996	(text provided on CD-ROM)

## FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				

Examiner  
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Date Considered

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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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				<b>APPLICANT:</b> Wayne Smith et al.			
				<b>FILING DATE:</b> December 5, 2001		<b>GROUP:</b> 2161	

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 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
		5,581,758		Burnett et al.	12-03-1996	(text provided on CD-ROM)
		5,584,024		Shwartz	12-10-1996	(text provided on CD-ROM)
		5,594,899		Knudsen et al.	01-14-1997	(text provided on CD-ROM)
		5,598,559		Chaudhuri	01-28-1997	(text provided on CD-ROM)
		5,600,831		Levy et al.	02-04-1997	(text provided on CD-ROM)
		5,659,728		Bhargava et al.	08-19-1997	(text provided on CD-ROM)
		5,701,455		Bhargava et al.	12-23-1997	(text provided on CD-ROM)
		5,724,575		Hoover et al.	03-03-1998	(text provided on CD-ROM)

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				

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		Number	Kind Code <sup>2</sup> (If known)			
		5,729,730		Wlaschin et al.	12-17-1998	(text provided on CD-ROM)
		5,734,884		Eberhard et al.	03-31-1998	(text provided on CD-ROM)
		5,765,147		Mattos et al.	06-09-1998	(text provided on CD-ROM)
		5,774,692		Boyer et al.	06-30-1998	(text provided on CD-ROM)
		5,778,355		Boyer et al.	07-07-1998	(text provided on CD-ROM)
		5,812,840		Shwartz	09-22-1998	(text provided on CD-ROM)
		5,822,751		Gray et al.	10-13-1998	(text provided on CD-ROM)
		5,826,077		Blakeley et al.	10-20-1998	(text provided on CD-ROM)

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				

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Signature

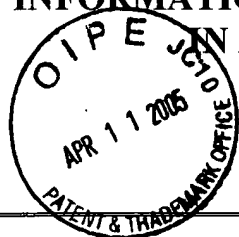
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		Number	Kind Code <sup>2</sup> (If known)			
		5,832,485		Chaudhry	11-03-1998	(text provided on CD-ROM)
		5,848,405		Norcott	12-08-1998	(text provided on CD-ROM)
		5,873,093		Williamson et al.	02-16-1999	(text provided on CD-ROM)
		5,875,447		Goel et al.	02-23-1999	(text provided on CD-ROM)
		5,897,632		Dar et al.	04-27-1999	(text provided on CD-ROM)
		5,950,210		Nelson	09-07-1999	(text provided on CD-ROM)
		5,956,706		Carey et al.	09-21-1999	(text provided on CD-ROM)
		5,960,426		Pirahesh et al.	09-28-1999	(text provided on CD-ROM)

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		5,960,427		Goel et al.	09-28-1999	(text provided on CD-ROM)
		5,963,933		Cheng et al.	10-05-1999	(text provided on CD-ROM)
		5,970,482		Pham et al.	10-19-1999	(text provided on CD-ROM)
		5,974,407		Sacks	10-26-1999	(text provided on CD-ROM)
		5,974,416		Anand et al.	10-26-1999	(text provided on CD-ROM)
		5,978,788		Castelli et al.	11-02-1999	(text provided on CD-ROM)
		5,978,791		Farber et al.	11-02-1999	(text provided on CD-ROM)
		5,987,455		Cochrane et al.	11-16-1999	(text provided on CD-ROM)

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		Number	Kind Code <sup>2</sup> (If known)			
		5,991,754		Raitto et al.	11-23-1999	(text provided on CD-ROM)
		6,003,022		Eberhard et al.	12-14-1999	(text provided on CD-ROM)
		6,006,216		Griffin et al.	12-21-1999	(text provided on CD-ROM)
		6,023,695		Osborn et al.	02-08-2000	(text provided on CD-ROM)
		6,032,144		Srivastava et al.	02-29-2000	(text provided on CD-ROM)
		6,088,705		Lightstone et al.	07-11-2000	(text provided on CD-ROM)
		6,108,651		Guha	08-22-2000	(text provided on CD-ROM)
		6,125,360		Witkowski et al.	09-26-2000	(text provided on CD-ROM)

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**SERIAL NO.**  
10/006,605

**FILING DATE:**  
December 5, 2001

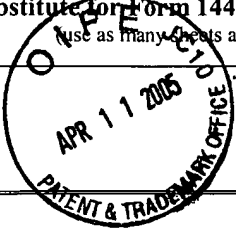
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[illegible][illegible]

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Page 7 of 10

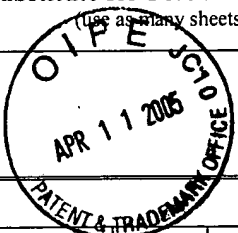
<b>Substitute for Form 1449A/PTO (Modified)</b> <small>(Use as many sheets as necessary)</small>		<b>Attorney Docket No.:</b> 50277-1755	<b>Application Number:</b> 10/006,605
		<b>First Named Inventor:</b> Wayne Smith	
		<b>Filing Date:</b> December 5, 2001	
<b>OTHER ART – NO PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>
		<a href="http://www.research.att.com/conf/vldb98/program.html">http://www.research.att.com/conf/vldb98/program.html</a> , Mar. 2001	
		<a href="http://www.research.att.com/conf/vldb98">http://www.research.att.com/conf/vldb98</a> , Mar. 2001.	
		Bello et al., "Materialized Views in Oracle", VLDB '98, Proceedings of 24th International Conference on Very Large Data Bases, Aug. 24-27, 1998, New York City, New York, USA, pp. 659-664.	
		Tanjar et al., "Aggregate-join query processing in parallel database systems"; May 14-17, 2000; High Performance Computing in the Asia-Pacific Region, 2000, Proceedings, The Fourth International Conference/Exhibition on, vol. 2, pp. 824-829.	
		Proietti et al., "Analysis of range queries and self-spatial join queries on real region datasets stored using an R-tree"; Sep.-Oct., 2000; Knowledge and Data Engineering, IEEE Transaction, vol. 12, Issue 5, pp. 751-762.	
		Najjar et al., "Cardinality estimation of distributed join queries"; Sep. 1-3, 1999; Database and Expert Systems Applications, 1999, Proceedings, Tenth International Workshop on, pp. 66-70.	
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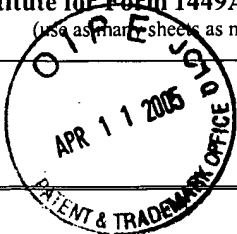
<b>Substitute for Form 1449A/PTO (Modified)</b> (Use as many sheets as necessary)		<b>Attorney Docket No.:</b> 50277-1755	<b>Application Number:</b> 10/006,605
		<b>First Named Inventor:</b> Wayne Smith	
		<b>Filing Date:</b> December 5, 2001	
<b>OTHER ART – NO PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>
		Segev, Arie et al., "Maintaining Materialized Views in Distributed Databases", Proceedings of the Fifth International Conference on Data Engineering, Feb. 6-10, 1989, pp. 262-270.	
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		Lee, Byung Suk et al., "Outer joins and filters for instantiating objects from relational databases through views", IEEE Transactions on Knowledge and Data Engineering, Feb 1994, Vol. 6, Issue 1, pp 108-119	
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